

Long-Range 3D Scanning

GKS Global Services specializes in providing 3D scanning and as-built models to clients worldwide. Our engineers have been providing solutions to a variety of industries for over 25 years.

Applications for Long-Range Scanning include: **Marine & Offshore; Power Generation; Petrochemical; Mining & Tunnels; Forensics & Accident Reconstruction; Construction, Architecture, & Surveying; Historical Preservation; Turbine Alignment; Simulations; Movie Productions; Rollercoasters & Amusement Parks; Video Gaming Industry; Sporting Facilities; and On/Off Shore Platforms.**

What is Long-Range 3D Scanning?

A ground-based technique for collecting **high-density 3D data**. Its purpose is to enable 3D scanning of **large-scale, complex entities**. Both the **interiors and exteriors** can be scanned, as well as natural environments for surveying and design purposes.

3D Long-Range Scanning Provides:

- As-built Documentation
- Accurate 3D Data
- Historical & Legal Archive
- Structural Analysis & Testing
- BIM (building information modeling)
- Improved Safety Conditions
- Roadway or Bridge Analysis & Inspection
- Data for Online Virtual Animation

About GKS

With over 25 years of experience around the globe, GKS Global Services has the ability to transform the massive amounts of detailed information recorded by 3D laser scanning into the end product that is right for you.



What Our Customers Are Saying

“Laser scanning easily reduces the time required for reverse engineering by more than 50%. The models produced are also more accurate because 3D scanning generates so many more measurements.”

~ P.B. @ U.S. Government

GKS Locations

Detroit, MI	Minneapolis, MN
Atlanta, GA	Seattle, WA
Charlotte, NC	Los Angeles, CA
Toledo, OH	Niagara Falls, NY
Moosup, CT	Philadelphia, PA
Washington, D.C.	Morgantown, WV
India	China
Singapore	Korea
Taiwan	The Netherlands

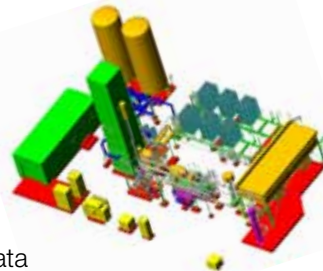
Applications of Long-Range Scanning Include:

Marine & Offshore



- Hull modeling
- Create a detailed CAD model of a ship's engine room and design a new installation while the vessel is at sea
- Collect as-built geometry that represents the actual shape of the vessel
- Perform marine simulations using actual hull geometry
- Conduct stability analysis with as-built structure

Petrochemical



- Document existing pipe work setups and plan for alterations with accurate as-built data
- Eliminate potential collisions and necessary reworks which reduces time required during construction
- Document lifecycle of a plant through repeat scans to detail changes and maintain an accurate record of plant conditions

Forensics & Accident Reconstruction



- Reconstruct and analyze accident sites or crime scenes before they have decayed
- Measure millions of points per minute in all directions so that important measurements are not missed; this is essential in legal cases
- Export data into forensic software to create a realistic view to visually determine sequence of events and causes

Mining & Tunnels

- Generate complex 3D cavities, digital terrain models, & continuously monitor slope
- Produce accurate drawings for current or theoretical tunnels by capturing the actual tunnel profile to visualize in 3D
- Stockpile volume measurement
- Scan in any environment; light/dark and dangerous areas



Power Generation

- Keep site documentation up-to-date for compliance with safety requirements
- Scan indoor and outdoor areas
- Use digital models for measuring piping
- Align turbines using the laser



Construction, Architecture & Surveying

- Safely and effectively measure existing conditions for risk factors
- Efficiently capture existing conditions for inspection without repeat visits to the site
- Enhance digital records with photo-overlay to preserve historic landmarks



Scanner
Rentals
Available

GKS scanned a plant in 4 days compared to an estimated month that would have been required using manual measurement methods!